

MAJOR ISSUES CRITICAL TO SUCCESS (from yellow post-it notes)

- . Support public access that provides understandable data and information to an "educated" public.
- . Maintain Voyager Connection.
- . Maintain integrity of current edit levels (have no less stringent checks in new system).
- . Open systems access (Mac, Windows PC, Unix).
- . States/locals need to have access to AQS through the EPANET or INTERNET.
 - Access should be flexible to allow for the policies of the various agencies.
- . INTERNET accessibility.
- . Better access for public (non-AIRS users).
- . Not being able to look at ambient data and quality assurance at the same time (tx).
- . Focus reporting on "key" items, such as attainment, trends, exceedances. Make it easy to find out whether pollutant levels are increasing or decreasing over a period of years, where and when exceedances happened, which sites are associated with nonattainment areas, etc.
- . Data updates > once a week.
- . Retrieval data storage on server.
- . Training on-line help.
- . Revise PARS very.1 to allow multiple audits on one day at a site. Also allow > 10 files in a set of PARS records.
- . Do away with number entry use (4 byte integer & 1 byte decimal position) and enter all numbers with explicit decimal points.
- . Continue to support capability for large national retrievals.
- . More frequent (perhaps on-line) updating.
- . Support to State and EPA indicators and major goals reports.
 - Need to be able to support performance measurements that show environmental protection and progress.

- . Need to be able to download summary data into other data formats (Quatio/Dbase, etc.).
- . SAS on AIRS server, not separate server.
- . Availability of quality assurance data.
- . Conform and support standards to data and architecture.
- . Summary statistics for precision and accuracy data should be revised from population to small sample statistics.
- . Quality assurance: PAMS QA? Separate meeting, or included in this meeting?
- . Better/easier compatibility with local systems - PC-LANS.
- . Make accuracy and precision data available on ambient data reports.
- . Excellent report formats need to be continued.
- . Capability to perform statistical analysis requirements and recommendations for PAMS data, reflecting PAMS guidance and grant requirements.
- . Will EPA provide changes in existing AIRS to provide comparison of ozone and PM FINE data with the new standards (or will this be delayed for new AIRS)?
- . Band width? What do you recommend for States (56k/TTI/other)?
- . The team should consider leaning towards a data warehouse design instead of a transaction processing system. The advantage is the emphasis towards data querying and reporting. Since the majority of the data is batched into the system, a third level normalization of the data base will hinder its performance.
- . Computer support for client/server environment.
- . Transfer of continuous data directly to screening file from desktop PC.
- . Capability of using plain English for reports, especially Ad hoc.
- . Create a "data thesaurus" that gives a long test descriptor for some of the more arcane data fields.

- . Easy retrieval of data. The capability to print from LPT1 on a PC. The capability to import the data into a database program or spreadsheet. [If I download a workfile, I would like to see a header defining each piece of data.]
- . Continued transfer to California information and files on all updates to AIRS for California.
- . Try to have a "not-so-GUI" interface that is much faster for those on low speed links. Do we all need shaded boxes all of the time?
- . More frequent updates. Yes! Daily!
- . PAMS data analysis tools developed specifically to address PAMS monitoring objectives (e.g., trends analysis, emissions reduction verification techniques, emissions inventory corroboration techniques, etc.).
- . Want to be able to view reports in the same program that they are generated in.
- . Easier download capabilities. Download in Lotus/Excel format.
- . On-line access may be a problem for data integrity. Would like to use a screening file to protect the data from accidental changes.
- . If data has passed all edits, it should become available after updating dataset.
- . Data editing.
- . Graphical presentation of data.
- . Concern: Need some type of communication backup to the INTERNET, such as a dial-up number for the new system, in case the primary path is not operational for whatever reason.
- . Ready general data accessibility to more people, particularly the general public.
- . Needs to an easier way to change POC's.
 - To combine POC's.
 - To change secured data to nonsecured, etc.
- . More sensible/reality check edits of criteria and noncriteria pollutant data.

- . Make it easier to get data into the system.
- . Should be able to easily access all old data.
- . New system should be flexible, dependable, and basic functions should be easy to use.
- . Make the system more user-friendly.
- . Allow the user to make on-line changes.
- . Do nightly updates of batch data.
- . Take a "holistic" approach. Particularly for retrievals, try to remove the segmentation of air quality and emissions data. Focus on "here is air pollution data for 'ABC' county," not here is AQ data, there is AF data. Define a framework that will support and integrate both data types, as much as possible.
- . Access to AIRS graphics.
- . Data security?
- . Concentrate on database design.
- . Insure excellent comm links to States.
- . Develop reusable objects that can be easily assembled into retrievals, reports, etc.
- . Need to be able to get PAMS upper-air data into database and make it retrievable.
- . Increase ability to graphically and statistically analyze data in AIRS.
- . Maintain system availability during transition period to new system, providing adequate training for State and local agency users to assure continued correctivity and efficient data submittals and retrievals.
- . Development of flags that relate to data quality and validity.
- . Maintain current modes of access. Don't make INTERNET the only way in.
- . Make data base user-friendly and flexible with functionality.
- . Make technology upgrades easier.

- . Screening for data entry errors.
- . Improving interfaces to other data analysis packages.
- . Performance.
- . Storage.
- . Upload/download time.
- . Make sure the date [12/31/99] problem gets fixed during the migration.
- . Quality assurance: Recommend to add additional two functions, such as primary and secondary standards and calibration and/or certification information of these standards.
- . Ability to retrieve data on a national level easily.
- . Link monitor attributes and NAAQS to time (dates in effect).
 - If I request NAMS monitors in 1990, give me the ones that were NAMS then, not now.
 - If I request particulate exceedances in 1985, don't tell me there were none, because PM-10 is now the criteria pollutant (not TSP).
- . Communication link to AIRS data base (model-dial up, dedicate lines, WAS, LANS, ???)
- . User input, user input, user input!
- . New system needs to allow States/local with existing systems (automated) to input data in the same format.